

Aheli Ghosh

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[Github](#) | [Linkedin](#) | [Website](#)

EDUCATION

Delhi Technological University

B. Tech, Computer Engineering CGPA: 8.84 / 10.0, First division with distinction

2017-2021

New Delhi

New Sainik Public Sr. Sec. School

CBSE AISSCE: 93.5%

2017

New Delhi

WORK EXPERIENCE

Software Engineer, Microsoft

June 2021 – Present

- Part of the Fluid Framework and Experiences team. ([product](#))
- Leveraging **React** and **Typescript** to build collaborative, low-latency components that integrate with Teams, Outlook and the M365 Suite.

Summer Analyst, Citibank ([ppt](#))

June 2020 – July 2020

- Launched end-to-end tool for task-based categorization of incoming email stream.
- Solely responsible for data preprocessing with **Spacy NLP pipeline**, word vectorization with **GloVe 6B embeddings**. Employed **few-shot learning** with machine learning algorithms.
- Accomplished response time of 20 ms/prediction with XGBoost algorithm (**89% accuracy**).

Student Researcher, Samsung Innovation Lab, DTU ([link](#))

March 2020 – Jan 2021

- Mobile camera based app to detect effects of flame gazing exercise on sustained attention span. ([demo](#))
- Utilized OpenCV and Dlib for pupil tracking.
- Achieved avg. **3.3% increase** in attention in a small group of volunteers.

Internship Trainee, Maruti Suzuki India Ltd

Dec 2018 – Jan 2019

- Learned to utilize **SQL** querying on the company's attendance management database.
- Increased accuracy by **20%**, which aided better tracking of attendance defaulters.

PUBLICATIONS

"Fighting Media Hyper-partisanship with Modern Language Representation Models"

Presented at [ICDAM 2021](#) (double-blind peer reviewed), Paper link: [Springer Lecture Notes](#)

"mFlameGaze: Mobile-Based Flame Gazing for Improving Sustained Attention"

Presented at [COMSNETS 2021](#) (peer reviewed) NetHealth Workshop, Paper link: [IEEE Xplore](#)

"Classifying Question Papers with Bloom's Taxonomy Using Machine Learning Techniques"

Presented at [ICACDS 2019](#) (double-blind peer reviewed), Paper link: [Springer CCIS](#)

TECHNICAL PROJECTS

Trippin ([link](#))

Build for India Hackathon, IIT Delhi 2019

- Developed an innovative road safety Android app to display optimal color-coded routes based on danger-index. Added features: driver mode, emergency SOS, post updates/complaints feed.
- Used MapMyIndia API to access routes, Firebase Realtime Database to handle posts and Google Places API for searching nearest hospitals/police stations.

FemHealth360 ([link](#)) ([View live](#))

- Developed a platform for women's all-round wellbeing: period tracker to alert for possible menstrual abnormalities, personalized meal plans curator and exercise recommendations.
- Technology used: ExpressJS, Bootstrap, jsCalendar, Backend: MongoDB, NodeJS, hosted on Heroku.

Text Emojifier ([link](#))

- Built text message sentiment analysis model that classifies amongst five chosen emojis.
- Employed GloVe word embeddings and stacked LSTMs with early stopping.

Telegram News Bot ([link](#))

- Implemented a conversational Telegram chatbot (@aheli_news_bot) to display news of any type/language.
- Utilized: Dialogflow, Gnewsclient, Flask (backend), hosted on Heroku.

ACHIEVEMENTS

- Received **2nd** prize at LinkedIn Wintathon for mentor matching app, 2020
- Received **2nd** prize at American Express Makeathon for investments suggestion app, 2020
- In top **6** teams, **hack.asia** finals, Singapore 2019
- Qualified **DELTA A2** with **85%** score, 2018 (Issued by the French Ministry of Education)
- National Talent Search Examination (NTSE) Scholar**, 2015 (in top 750 out of 800k applicants)

SKILLS

Programming: C, C++, Python, MySQL, HTML, Typescript

Operating Systems: Windows, Linux, MacOS

Frameworks/Libraries: Scikit-Learn, Numpy, Pandas, Matplotlib, Flask, BeautifulSoup, Scrapy, OpenCV, Tensorflow, Git, MongoDB, ExpressJS, React, Jest, NodeJS

VOLUNTEER/EXTRACURRICULAR EXPERIENCES

- Chief Technical Head, Computer Society of India-DTU (2020-21): Conducted DSA classes & prepared quizzes.
- Member, Climb, DTU: Mentored 35 girls at [SheHacks](#) hackathon, [Wrote](#) (Pg 10) for the Climb newsletter.
- Volunteer, Rotaract Club, DTU: Executed fundraiser for HelpAge India, 2019 - Successfully raised INR 20k, Taught students (7-13 years old) at a school for underprivileged children.
- Member of Indian classical vocal choir at Madhurima (music society) DTU.